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	TITL		WB	AS	SEN	NBL,					<u> </u>				S	owg lize \4	DWG NO. 14 SHEET 1	0S265		RE	SEE REV CORD	

1.0	ASSEMBLY MUST MEET ALL THE REQUIRE	MENTS O	F 88P220.	
2.0	COMPONENT HEIGHT SHALL NOT EXCEED	.50 INCH.		
3.0	UNLESS OTHERWISE SPECIFIED: CAPACITANCE VALUES ARE IN MICROFARA RESISTANCE VALUES ARE IN OHMS. RESISTORS ARE 0.25 W. RESISTANCE TOLERANCES ARE ± 5 PERC			
4.0	THE PADS FOR THE POSITIVE TERMINALS CATHODES OF DIODES ARE CIRCLED.	OF CAPA	CITORS AND THE	
5.0	ON THE PWB, A " + " SYMBOL IS MAP POSITIVE TERMINAL OF POLARIZED CAPACE THE SYMBOL " > " BETWEEN PADS, POLARIZED TERMINAL PAD FOR DIODES.	CITORS. T	HE ARROWHEAD OF	
6.0	SEMICONDUCTORS ARE TO BE SCREENED MENTS OF 156P11828. IN THE EVENT OF 0 SPECIFICATION TAKES PRECEDENCE.			
7.0	THE GENERIC PART NAMES LISTED IN THE REFERENCE ONLY. ALL ITEMS MUST BE PU OF THE XEROX COMPONENT SPECIFICATION	JRCHASE		тѕ
8.0	HAYWIRES ARE ACCEPTABLE WITHIN THE OF 082P80232.	LIMITS A	ND REQUIREMENTS	
9.0	MAXIMUM PROTRUSION SOLDER SIDE IS .1	0 INCH.		
10.0	ELECTROSTATIC SENSITIVE DEVICE, PROVI FROM ELECTROSTATIC DISCHARGE PER & SHEETS 3.1, 3.2 AND 3.3).	3P220, SE	CTION 17.0 (SEE	
TITLE PWB AS	PROPRIETARY NOTE ON SHEET 1 APPLIES	TO ALL SH DWG. SIZE A4	DWG. 140S2650X NO. 140S2650X	SHEET REV D

11.0 SEE SHEET 4.0.

12.0 SEE SHEET 4.0.

13.0 SEE SHEET 4.1.

14.0 TESTING TO BE PERFORMED PER THE APPROPRIATE TEST SPECIFICATION (SEE SHEET 3.2).

15.0 ALTERNATE PART (SEE SHEET 3.3).

PROPRIETARY NOTE ON SHEET 1 APPLIES TO ALL SHEETS

TITLE
PWB ASSEMBLY, IOP

DWG. 140S2650X SHEET REV
A4 SHEET 2.1 OF
D

REFERENCE PART DESCRIPTION DESIGNATION ITEM NUMBER DESCRIPTION			7				ED PE						
	ITEM	1	DESCRIPTION	0 REV	1 REV	2 REV	3 BEV	4 REV	5 REV	6 REV	7 REV	8 REV	9 RE
DESIGNATION		NUMBER	14 PWB DETAIL, IOP			111. 7	1124		11121	1,12.4	,,,,,,,		
	1	140P12114	PWB DETAIL, IOP	1	1			1000100.000					
	2	156P11952	SCHEMATIC, IOP	REF	REF								_
	3	003P87082	EXTRACTOR	2	2								
	4	030P87014	STIFFENER, (FRONT)	1	1								
	5	030P83244	STIFFENER, (BACK)	1	1								
	 	091P87222	LABEL, IOP	1	1								
	 	091P87219	LABEL, PWB ASSY	1	1								<u> </u>
	8	713W20725	SOCKET, 24-PIN	4	4								
	9	713W20625	SOCKET, 40-PIN	1	1								
	10	320W13201	RIVET	7	7								
21,2	 	702W08901	CAP., 10, 25 V	2	2								
C3 THRU 12, 4 THRU 66.	12	702W05218	CAP., 0.1, 50 V	64	64								
<u></u>	13	702W02418	CAP., 0.001, 100 V	1	1								_
67,69	 	702W28005	CAP., 22, 35 V	2	2								
C68	1	702W17105	CAP., 68, 15 V	1	1								L
CR1,3	 	707W00642		2	2								
1,3	1	708W11302		2	2								
2 .	1-	708W11502		1	1								
J1	 	713W21830	CONN, 18 PIN	1	1								
P11	20	713W15120	CONN, 14 PIN	1	1								
P12	1	713W12220	CONN, 10 PIN	1	1								
P13		713W12720	CONN, 40 PIN	1	1								L
P14	T	713W10820	CONN, 50 PIN	1	1							<u> </u>	
21	1	707W01916	TRANSISTOR 2N2905A	1	1						<u> </u>		
71,26,28	25	703W34688	RES, 10 k	3	3							<u> </u>	L
R2	26		RES, 15 k	1	1_			<u> </u>					
R3,4	27	703W31488	RES, 470	2	2							<u> </u>	_
	28		RES, 33 k	1	1								_
₹6	29		RES, 100	1	1							<u> </u>	
37,17,18	30	703W30688	RES, 220	3	3								
R8,11 THRU 16,27,29,30	31	<u> </u>	RES, 1 k	10	10	data a ser pick in a particular de la companya de l							
R9	32	703W26687	RES, 4.7, 0.5 W	1	1								
PROPRIETARY NOTE ON SHEET 1 APPLIE				TO A	LL SH	EETS			other resource	EAUNE PATE		1	
PWB ASSEMBLY, IOP					DWG. SIZE	NC). 1			(RE	E۷
		PR			DWC	3.	3. DV	DWG. NO. 1	3. DWG.	DWG. NO. 140S2650>	DWG. NO. 140S2650X	DWG. NO. 140S2650X	S. DWG. SHI NO. 140S2650X

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REFERENCE DESIGNATION	ITEM	PART NUMBER	DESCRIPTI	ON	0 REV	1 REV	2 REV	3 REV	4 REV	5 REV	6 REV	7 REV	8 REV	9 RE
PEDIDITA HOIT		HOMBEN		11124	71E V	MEY	116.4	116m V	, 112 V	116.8	, , 14 V	. 10. 7		
S1	33	710W00002	DIPSWITCH, 2-	POLE	1	1								
U1	34	703W01291	R-DIP, 150 x 8		1	1								
U2,17,37,140	35	733W01633	IC, OCT BFR	74S240	4	4								
U3,36,49,90, 128,142	36	733W01698	IC, D-FF	74LS374	6	6								
U4	37	703W30891	R-DIP, 160/260	x 14	1	1								
U5	38	733W00100	IC, DRVR	75114	1	1								
U6,55,87,133	39	733W01705	IC, OR	74LS32	4_	4								_
U7	40	733W01911	IC, DRVR	75188	1	1								_
U8	41	733W00098	IC, RCVR	75189	1	1								
U9,57,107,135	42	733W01704	IC, AND	74LS08	4	4								
U10,25,39,53	43	733W01663	IC, CNTR	74LS393	4	4								
U11,26,40,54	44	733W01674	IC, REG	74LS165	4	4								_
U12,47,89,141	45	733W01624	IC, DF-F	74LS273	4	4								
U13	46	537P02280	IC, PROM	93453	1	1								L
U14	47	537P02279	IC, PROM	93453	1	1								
U15,137,143	48	733W01640	IC, DF-F	748374	3	3								
U16	49	733W01916	IC, DATA SEL	74LS153	1	1								
U18	50	733W00378	IC, RCVR	75115	1	1								
U19,24,60,74, 139	51	733W01626	IC, OCT BFR	74LS244	5	5								
U20,41,43,56, 85,86,121,136	52	733W01675	IC, DF-F	74LS74	8	8								
U21	53	537P02283	IC, PROM	93427	1	1								
10.0 > U22	54	733W01946	IC, USART	18251 A	1	1								
U23,35,48,84, 108,123,127	55	733W01625	IC, OCT BFR	74LS240	7	7								
U27,147	56	733W01643	IC, NOR	74S02	2	2								_
U28	57	733W01770	IC, CNTR	74LS163A	1	1								L
U29	58	733W01771	IC, DF-F	74874	1	1								_
U30	59	733W01775	IC, MULTIV	74123	1	1								_
U31,32,33,34	60	733W01909	IC, CNTR	74LS569	4	4								_
U38,120	61	733W01745	IC, MUX	74LS157	2	2								L
U42	62	733W00339	IC, HEX INV	7414	1	1								_
TITLE		PR	OPRIETARY NOTE ON	SHEET 1 APPLIES	Appending to March 1985	LL SHI	EETS	G.	e cherchicocopiani	n postante e profes	NEWSCONDENSION		SHE	
	SSEN	MBLY, IOP			-	sizs A4	NO	. 14 ET 3	1052	350X of	James and the same of the		D	٧

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REFERENCE	ITEM	PART	DESCRIPTIO	N	0	1	2	3	4	5	6	7	8	9
DESIGNATION	116111	NUMBER	DESCRIPTIO	N	REV	REV	REV	REV	REV	REV	REV	REV	REV	RE
u44,45,51,134, 144,145,146	63	733W01706	IC, DCDR	74LS138	7	7	West of the	riginary modeling and						
U46,104,105	64	733W01672	IC, HEX INV	74LS04	3	3								
10.0 U50	65	733W02225	IC, TIMER	18253-5	1	1				Ì				
U52	66	703W14991	R-DIP, 5.1 k x 15		1	1								
10.0 U58	67	733W02214	IC, FDC	FD1797A	1	1								
U59,62,91,109	68	733W01740	IC, XCVR	74LS245	4	4								
10.0 U61	69	733W02232	IC, DMA CONT	18257-5	1	1								
10.0 > U63 THRU 70, 76 THRU 83, 94 THRU 101, 111 THRU 118	70	733W01502	IC, RAM	l2114	32	32								
U71,72,119	71	733W01671	IC, NAND	74LS00	3	3								
U73	72	703W15691	R-DIP, 10 k x 15	g Angelle and	1	1								
U75,93,110	73	733W01708	IC, D-LATCH	74LS373	3	3								
U88,122	74	733W01642	IC, D F-F	74LS175	2	2								
10.0 U92	75	733W02221	IC, MICROPRO	18085A	1	1								
U102,103	76	733W01766	IC, MUX	74LS353	5	2								
U106	77	537P02281	IC, PROM	93427	1	1								
U124	78	537P02284	IC, PROM	93427	1	1								
U125	79	733W01662	IC, DCDR	74LS155	1	1								
U126	80	733W00318	IC, NAND	74S00	1	1								
10.0 U129	81	537P03029	IC, PROM	12716	1	NA								
10.0 U130	82	537P03030	IC, PROM	I2716	1	NA								
10.0 U131	83	537P03700	IC, PROM	12716	1	NA								
10.0 U132	84	537P03032	IC, PROM	I2716	1	1								
U138	85	537P02282	IC, PROM	93427	1	1							<u> </u>	_
Y1	86	733W01800	IC, 1.8432 MHz	K1114A	1	1								
Y2	87	733W01802	IC, 16 MHz	K1114A	1	1								
Y3	83	733W01801	IC, 6 MHz	K1114A	1	1								
14.0	89	156P11270	TEST SPEC, IOF)	REF	REF								
90 156P12302		REWORK INSTR	UCTIONS	REF	REF									
	91	117P10059	WIRE, 26 AWG		AR	AR								\prod
C70	92	702W05918	CAP., 0.033, 100) V	1	1								
		PF	ROPRIETARY NOTE ON S	SHEET 1 APPLIES	TOA	LL SF	HEETS	- USE SEE STATE				TO CONTRACT OF STREET	7	
TITLE PWB A	SSE	MBLY, IOP	<u>ары эмге томиничников меняманан коминичной меняман коминичной меняман ком</u> ена усточной билот столого билот стол		By grant of the state of the st	DWG. SIZE	HC	an a thail an		2650>	(rikarnya hi a desirajiya ngabi	SHI	
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REFERENCE		0407										EMBL		
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					1127	114.	116.8	1114	1112.	11124	1	11124	'\ <u>-</u> '	-112
15.0 CR4	93	707W00273	DIODE	1N4148	1	1	A COMPANY OF THE PARTY OF THE P							
15.0 CR4	94	707W00347	DIODE	1N270	1	1								
R31	95	703W33988	RES, 5.1 k		1	1								
R32	96	703W31088	RES, 330		1	1								
	97	713W20525	SOCKET, 16 PI	N	1	1								
10.0 U129	98	537E02180	IC, PROM	12716	NA	1								
10.0 U130	99	537E02190	IC, PROM	12716	NA	1								
10.0 U131	100	537E02200	IC, PROM	12716	NA	1								
	101	073K16160	PROM KIT, 80	MB	NA	REF								
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		1	ROPRIETARY NOTE O	N SHEET 1 APPLI	ES TO A	LL SI	L HEETS	<u> </u>			ــــــــــــــــــــــــــــــــــــــ		<u> </u>	ل
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PWB /	ASSE	MBLY, IOP			- Arter contra	SIZE	110	CONTRACTOR A PROPERTY.			 		RE	
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sposition REJECT ————	DATE	DOCUMENTS	NCH SUPPORT NG	DELTA U	MC
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Laurel Message

From: DRODGERS.ES

Date: Thu, 8 Jan 87 20:00 PST

Subject: 32K Masters

To:

R. Dances M2-03 (ESMail)

KEROX

Bob, Relative to the note below, I have a set of master EPROM's that you may have if you want them for the four patterns.

DR.

Date: Fri, 19 Dec 86 13:19 PST

From: DRODGERS.ES

Subject: Substitute for 16K EPROM on 8010

To: Len Brady ESCG-237(ESMail)

cc: S. McMullen M4-06/ A. Ray A2-18 (ESMail), AKanadjian, DRodgers

This is a response to your request to find a solution to the lack of suppliers on the 733W01506 2KX8 EPROM that is used on the IOP board of 8010. We recommend that you replace this part with the 4KX8 EPROM 733w01597. We have reviewed the board design and the device specifications and found that there is no difference in the device pins for the two devices as used on the IOP except as follows:

Pin#/ -1506 /-1597 / IOP board function 18/PDPGM/ CEbar / BankSelectbar 20/ CEbar /OEbarVPP/MemReadbar 21/ VPP / All / VCCtie

Pin 18 PDPGM or CEbar act in an identical way to select or powerdown the part. Pin 20 CEbar and OEbarVPP act the same to turn on/off the outputs of the part. Pin 21 The VCCtie for the -1597 merely causes only one half of the 32K part to be accessed if it is used on the IOP board.

We programmed two sets of four EPROMS using the -1597 32K device by putting the same 16K pattern in each half (All=0 and All=1) of the device. One set used TI parts and one used Fujitsu parts; the two qualified sources for the 32K. The devices were used to stuff two IOP's which were then tested on the GRboard tester and 8010 systems in Ml and M2; no failures occurred.

There should be no problem using the 32K device on the board as long as it is programmed correctly. Change Requests should be written against the four 537 pattern drawings to change the part no. from 733w01506 to 733w01597 and the test spec. no. from 156P16305 to 156P12575 and to change the data pattern as follows:

The first two pages of the data pattern should remain as is and two more pages should be added that are identical to the first except the four hex

addresses under the address column start at 0800 and count up to 0FE0 as they would for the last 16K bits of a 32K device.

The pattern #'s are: 537P03029, 537P03030, 537F03032, 537P03700

Len, sorry for the delay in getting this to you, we had many high priority tasks recently.

DR.



XEROX

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		DWG	STATUS		Сно	3. NO.			RE	v		
		REV	TYPE	CHG B	Y/DATE	СНК ВУ	/DATE		CHK CODE	CH	ig NO.	MF CHK
		Α	ISS	J. alans	opars					55	9788	MF
		В	D/C	E. A. Caria	19 26 JUL 19 B3	8. f. Pariago	24 34	93	3	554	9794	MF.
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0.3	A4	А	В			10	A4	<u>A</u>	В			
			В			11	A4	<u>A</u>	В			
0.4	A4	A				12	A4	A	В			
0.5	A4	A	В			13	A4	<u>A</u>	В			
0.6	A4	A	B			14	A4	<u> </u>	В			
0.7	A4	A	В			15	A4	<u> </u>	В			
01	A4	A	B		 	16	A4	A	В			
02	A4	A	В			17	A4	<u>A</u>	В			
03	A4	A	B			18	A4	_ <u>A</u>	В			
04	A4	A	B			19	A4	<u>A</u>	В			
05	A4	A	B		 	20	A4	_ <u>A</u> _	В			
067	A4	<u>A</u>	B			21	A4	<u> </u>	В			
07	A4	A	B			-22	A4	<u>A</u>	В			
80	A4	A	<u>B</u>			23	A4	<u> </u>	В			_
09	A4	Α	<u> </u>	<u> </u>		24	A4	A	В			
XEROX MAT	ERIA	L SPE	С	XEROX	FINISH SPEC		RELAT	ED SF	PECS			
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PREPARED	BY/D	ATE	CHECK	ED BY/DATE	APPROVE	D BY/DATE	REFER	ENCE	CODES	**************************************	· 	
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17 FEB 82 5 MAR 182 30 MAIL &2							DWG	DWG			<u> </u>	
SCHEMATIC, IOP							SIZE	NO.	136	P11952		SEE REV RECORD
							AA	SHE	ET 0:	1 OF 6	56	MECORD

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SHEET NO.	SIZE		SHEE	T REV	ISION		-	SHEET NO	SIZE		SHEE	T REV	ISION		
25	A4	А	В					58	A4	А	В				
26	A4	А	В					59	A-1	A	В				
27	A4	А	В						The second second	- CONTRACTOR SING					
28	A4	А	В					2		TO COMPANY TO STATE OF THE STAT					
29	A4	А	В	- with resident constraints											
30	A4	А	В							-					
31	A4	А	В												
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34	A4	А	В												
35	A4	А	В												
36	Α4	А	В					Name of the last o							<u></u>
37	A4	A	В												
38	A4	А	В												
39	A4	А	В												
40	A4	А	В								en er skill skille kommen (i skille film)				
41	Α4	Α	В							can copyrage days the 100 of					
42	A4	А	В											<u> </u>	
43	A4	А	В											<u> </u>	<u> </u>
44	A4	А	В												
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46	A4	А	В										<u> </u>		
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56	A4	Α	В		<u> </u>		<u> </u>	A STATE OF THE STA						ļ	<u> </u>
57	A4	А	В			<u></u>				-					

	PROP	RIETARY NOTE	ON SHEET	1 APPLIES	TO AL	L SHEETS	
TITLE	SCHEMATIC, IO)			DWG. SIZE	DWG. 156P11952	SHEET REV.
	3011L1111110; 101				MA	SHEET 0.2 OF	(Record Above)

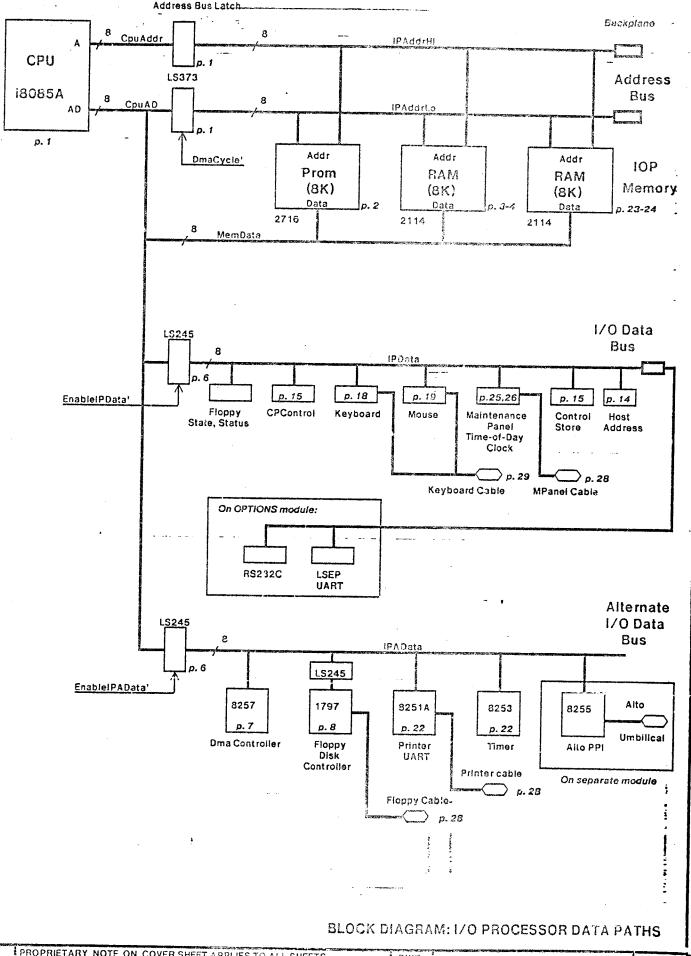
SHEET

0.4	BLOCK DIAGRAM: 1/O PROCESSOR DATA PATHS
G. 5	BLOCK DIAGRAM: L/O PROCESSOR CONTROL ORGANIZATION
0.6	BLOCK DIAGRAM: FLOPPY CONTROLLER
0.7	BLOCK DIAGRAM: CP - IOP PORT
1	CPU
2	PROM, MEMORY CONTROL
3	4K RAM MEMORY BANKS 0 - 3
4	4K RAM MEMORY BANKS 4 - 7
5	I/O CONTROL, MEMORY CONTROL
6	I/O DATA BUS CONTROL
7	DMA CONTROLLER
8	FLOPPY DISK CONTROLLER
9	FLOPPY DISK CONTROLLER WRITE COMPARE
10	FLOPPY DISK CONTROLLER MISCELLANEOUS
_1.1	FLOPPY DISK RECEIVERS/DRIVERS
12	FLOPPY DISK CONTROLLER DATA SEPARATOR
·13	DMA TEST REGISTER
14	INTERRUPT REQUEST REGISTER
15	CP CONTROL, CONTROL STORE
16	CP - IOP PORT - i
17	CP - IOP PORT - 2
18	KEYBOARD INTERFACE
19	MOUSE INTERFACE
20	TIME-OF-DAY/MAINTENANCE PANEL INTERFACE
21	MISCELLANEOUS CPU CONTROL
22	PRINTER INTERFACE
23	4K RAM MEMORY BANKS 8 - 11
24	4K RAM MEMORY BANKS 12 - 15
25	TIME-OF-DAY CLOCK - 1
26	TIME-OF-DAY CLOCK - 2
27	DISCRETES, I/O CONNECTORS - 1
28	I/O CONNECTORS - 2
29	FUSES, POWER SUPPLY, CONNECTORS
30	BOOT AND RESET CIRCUITRY
31	FILTER CAPACITORS
32	SPARE COMPONENTS
33	TEST POINT LISTING, CONNECTOR LISTING, SIGNAL LISTING

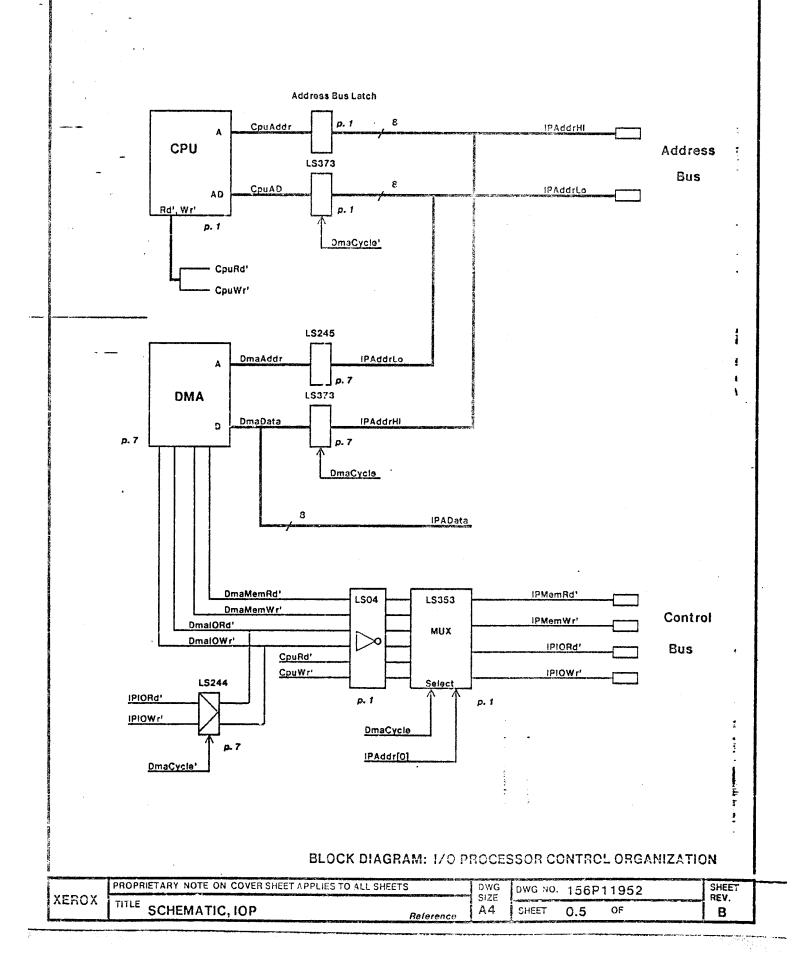
Note: The issued schematic drawing is made from [Rain]<SDMod>IOP3.dmASIL-C

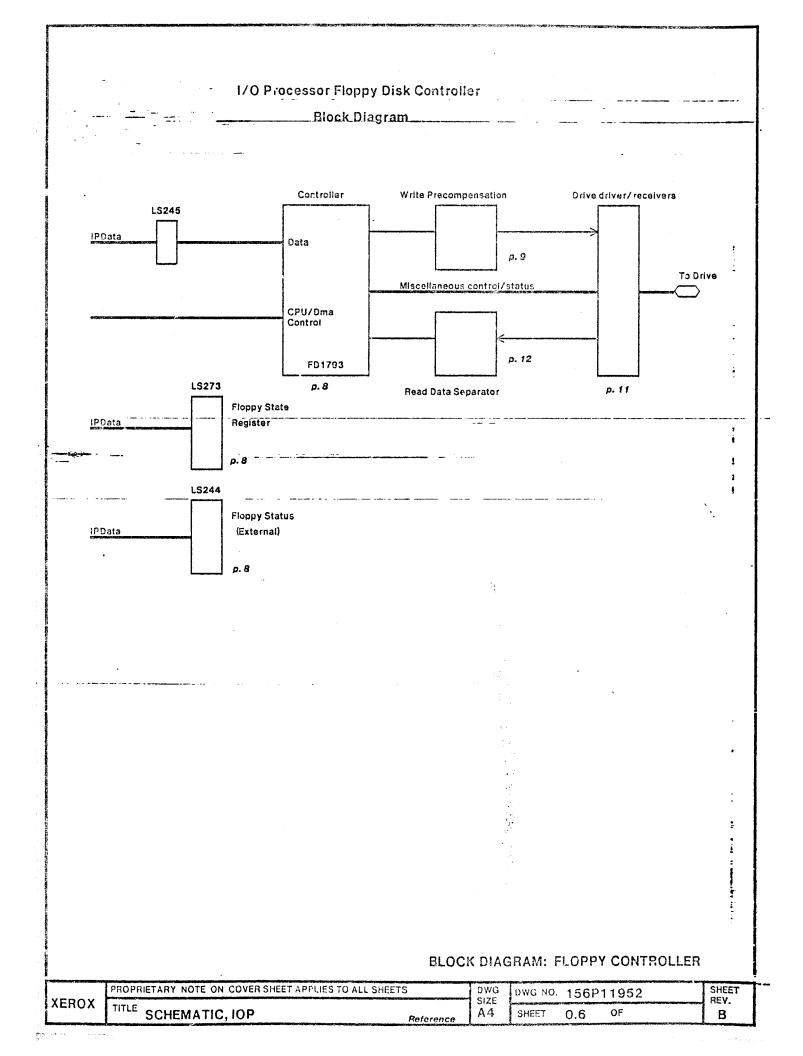
TABLE OF CONTENTS

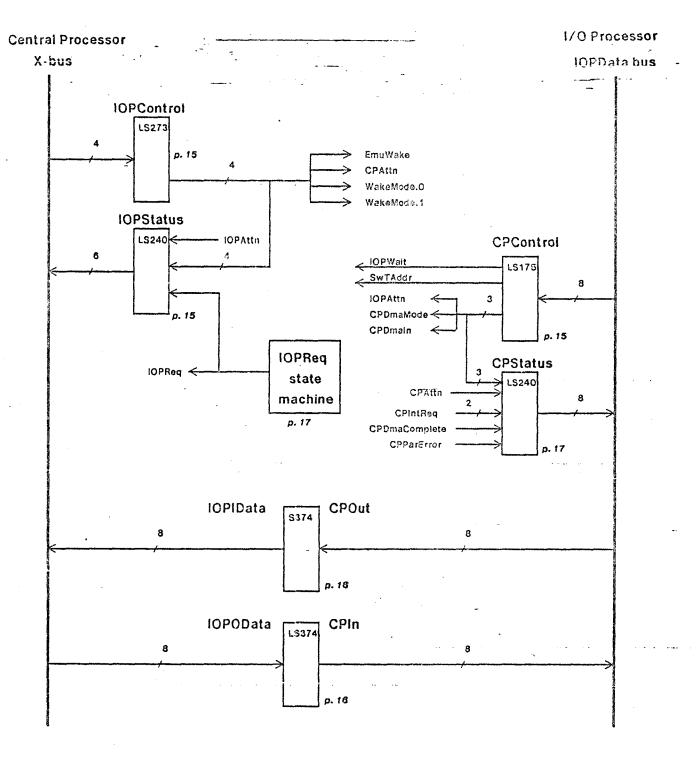
R :	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEET	S	DWG SIZE	DWG NO.	156P	11952	The state of the s	SHEET REV.	ļ —
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I SCHEMATIC, IOP	A4	SHEET	O A	OF			ı
Reference			U.4				i

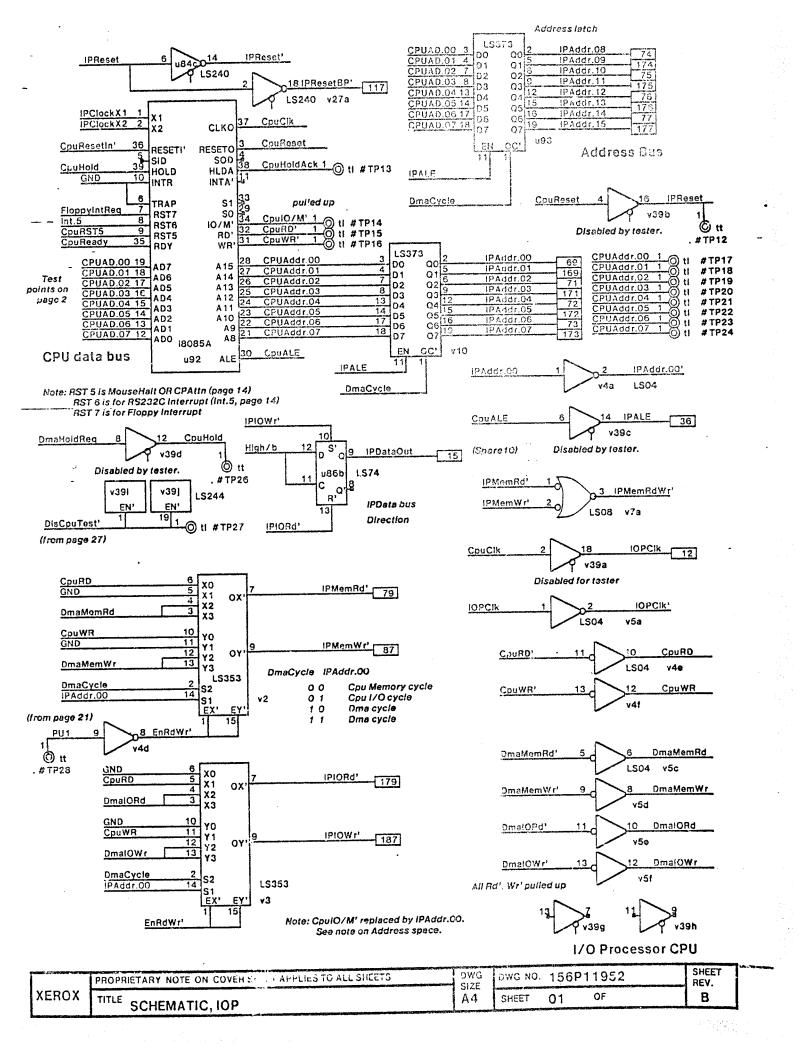


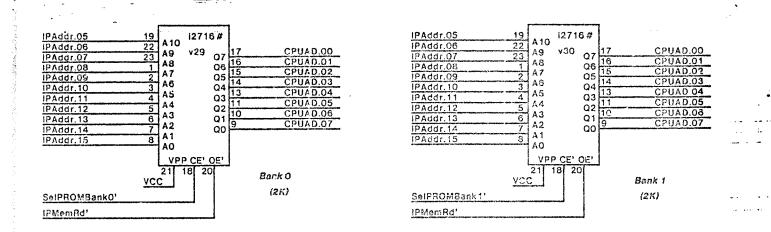


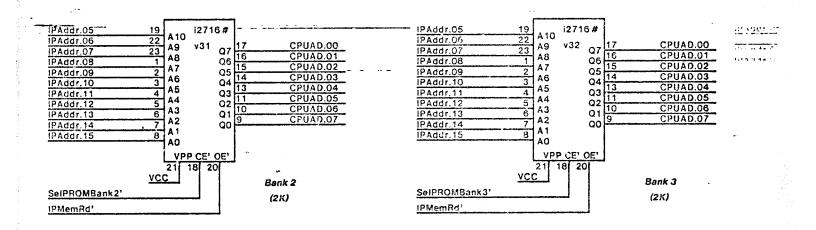


BLOCK DIAGRAM: CP - IOP PORT . ..

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ı		PROPRIETARY NOTE ON GOVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	15601	11060	SHEET	
ı	XEROX		SIZE	1011a 110.	1306	11902	REV.	l
	ALROA	TITLE SCHEMATIC, IOP	A4	SHEET	0.7	QF	B	(
	ال المساحد	Reference	A TABLE OF THE PARTY OF THE PAR	A PROPERTY OF THE PERSON NAMED IN COLUMN TO SHAPE OF THE				1



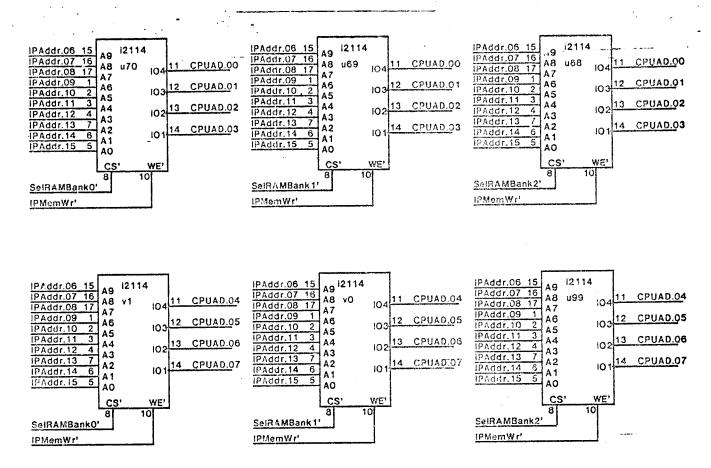




	CPUAD.00	_ 0,,	#TP3
•	CPUAD.01	1 >=< **	
•	CPUAD.02		
•	CPU4D.03	-;- :::::::::::::::::::::::::::::::::::	
•	CPUAD.04	-	
•	CPUAD.05	-;- :@ t	
٠	CPUAD.06	 (Q) ti	
٠	CPUAD.07	-;- @) ti	
•	CFUAD.07	— ' ⊚ ti	#TP10

I/O Processor PROM

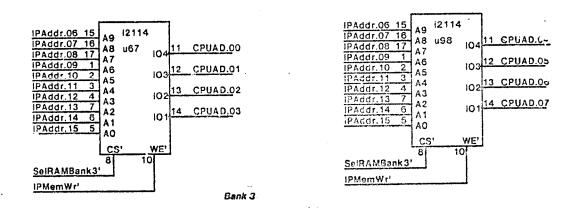
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	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	11952		SHEET	Γ
XEROX		SIZE	-				REV.	ı
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Bank O

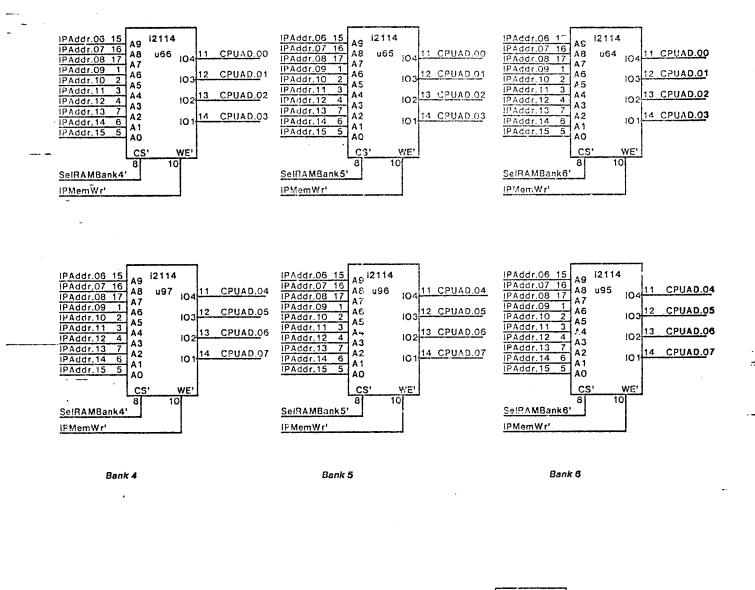
Bank 1

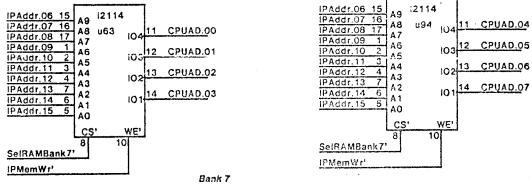
Bank 2



I/O Processor 4K RAM Memory-Banks-0--3 --

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Andrew Control of the last	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	1560	11052	SHEET	Г
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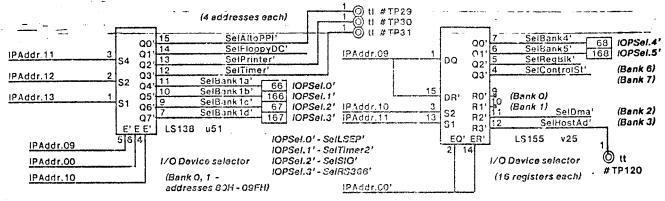
Note: RAM Banks 8 - 15 on pages 23 and 24.

1/O Processor 4K RAM Memory-Banks 4-7

	•				Andrews constitutional of Techniques		_
grammas v manumerous j	PROPRIETARY NOTE ON COVERSHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	:562:	11952	SHEET	ļ
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ACCOUNTS OF THE OWNER, WHEN		ongeneralmentender	See AND ADDRESS OF THE PARTY OF	CARLESCO CONTRACTOR		-	4

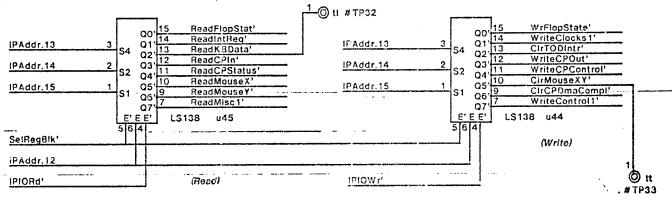
1/0 Control

(Depends on Addr[0] = Addr[8], etc. for I/O. IPAddr[0] = 1 for I/O addresses.)



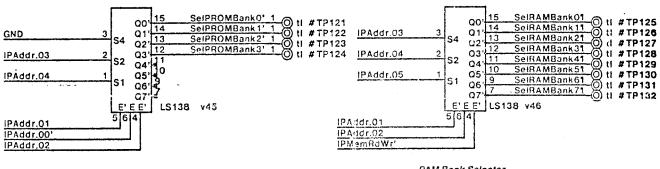
Note: Bank 4 reserved for Options card.

Note: Bank 5 is used by IPData bus test register.



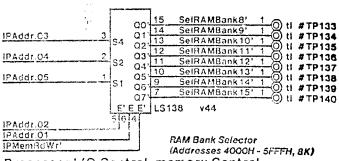
Single Register Block (Bank 6, registers 8-15, addresses 0E3H - 05FH)

Memory Control



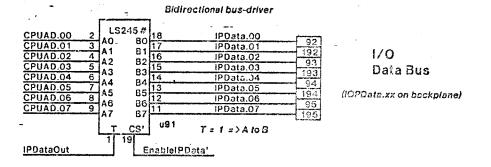
PROM Bank Selector (Addresses Bank 0: 0 - 7FFH,

Bank 1: 800H - 0FFFH, Bank 2: 1000H - 17FFH, Bank 3: 1800H - 1FFFH) RAM Bank Selector (Addresses 2000H - 3FFFH, 8K)

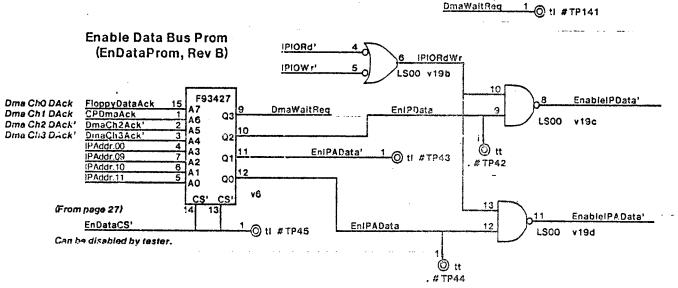


1/O Processor I/O Control, memory Control

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P1	1952	SHEET REV.	
XEROX	TITLE SCHEMATIC, IOP	A4	SHEET	05	OF	В	
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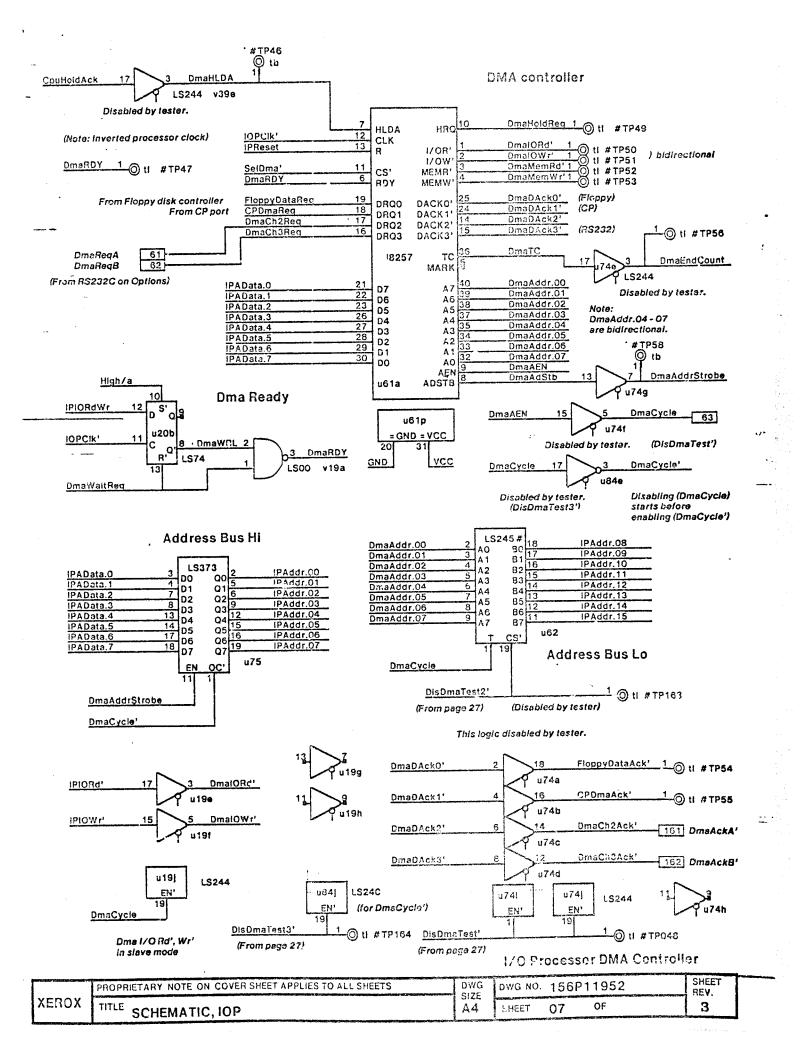
Bidirectional bus-driver L\$245# CPUAD.00 BO 17 IPAData.0 ΑO #TP34 CPUAD.01 IPAData.1 A 1 ti #TP35 Alternate CPUAD.02 IPAData.2 A2 82 tí #TP36 5 CFUAD.03 IPAData.3 1/0 A3 83 ti #TP37 6 7 IPAData.4 CPUAD.04 A4 **B4** ti #TP38 Data Bus IPAData.5 CPUAD.05 B5 12 A5 tl # TP39 CPUAD.06 8 IPAData.6 Α6 B6 tl # TP40 IPAData.7 CPUAD.07 A7 87 #TP41 cs' v9 T = 1 => A to B **IPDataOut** Enable!PAData'

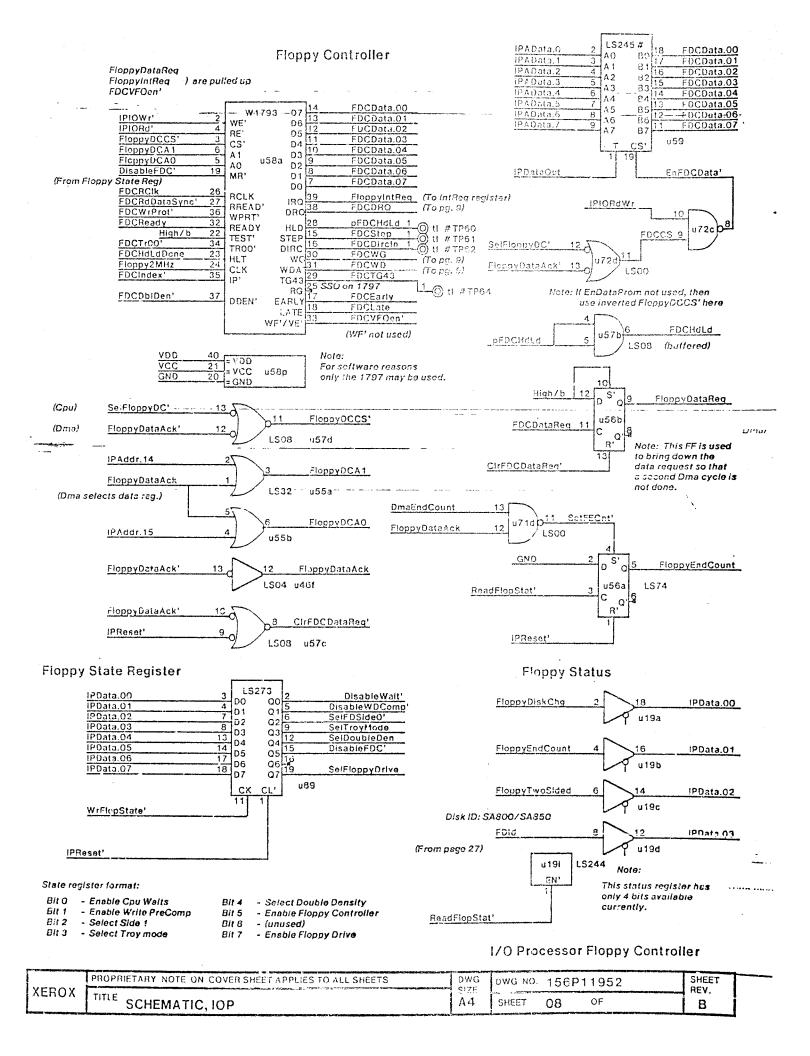


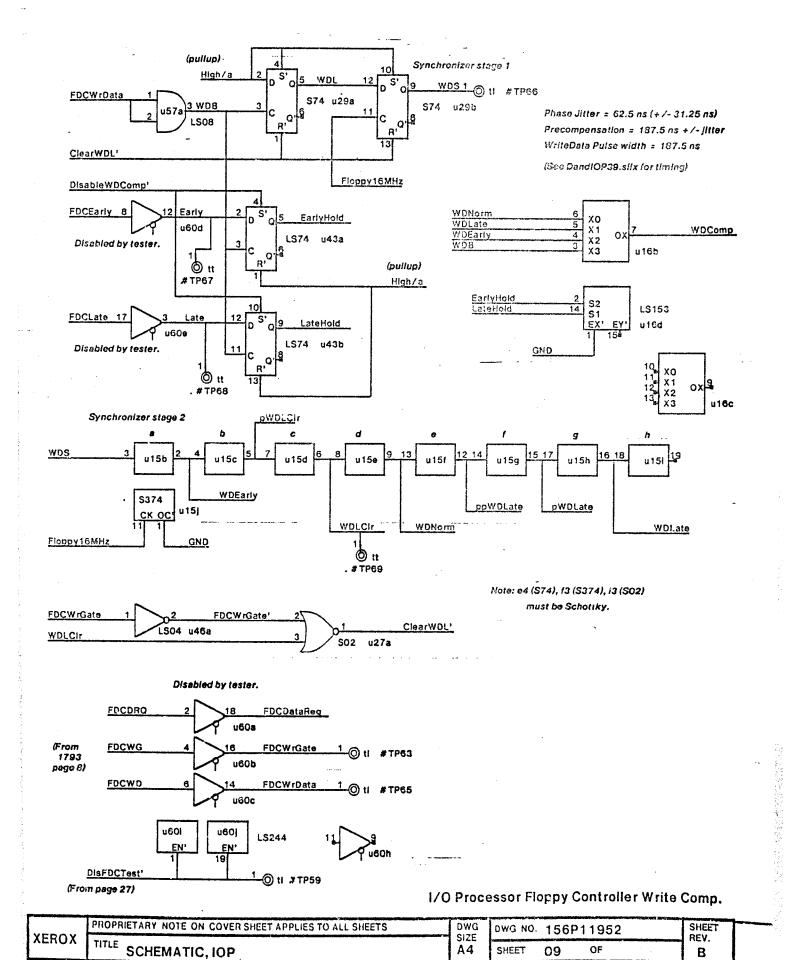
Note: Do not use DMA memory addresses in the I/O Address space.

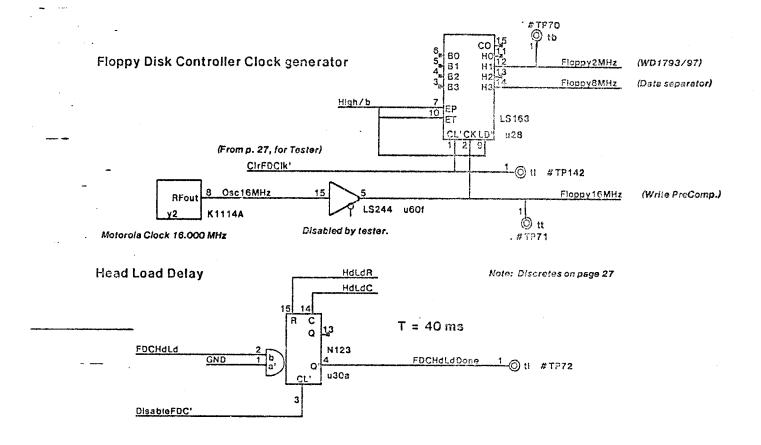
1/0 Processor I/O Data Bus Control -

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	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	11952	SHEET
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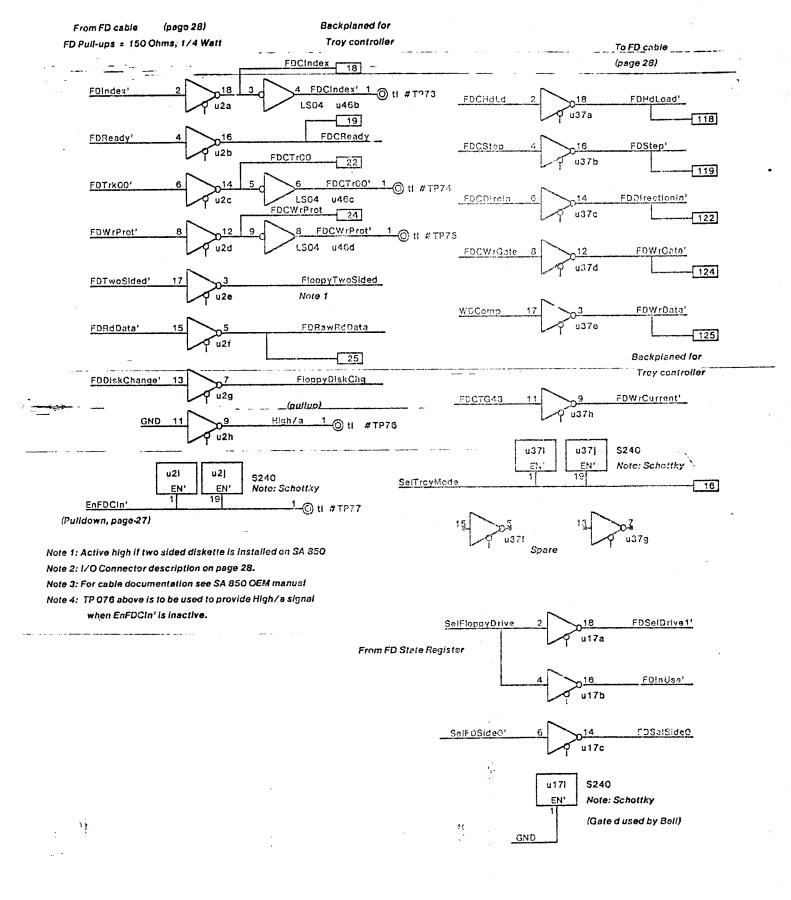






I/O Processor Floppy Controller Miscellaneous

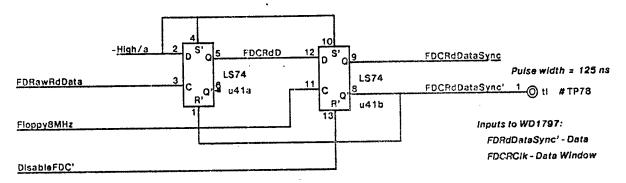
						-		_
1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	11952		SHEET	ľ
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	SCHEMATIC, IOP	A4	SHEET	10	OF		В	ı
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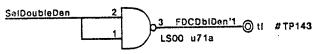
1/O Processor Floppy Disk Receivers/Drivers

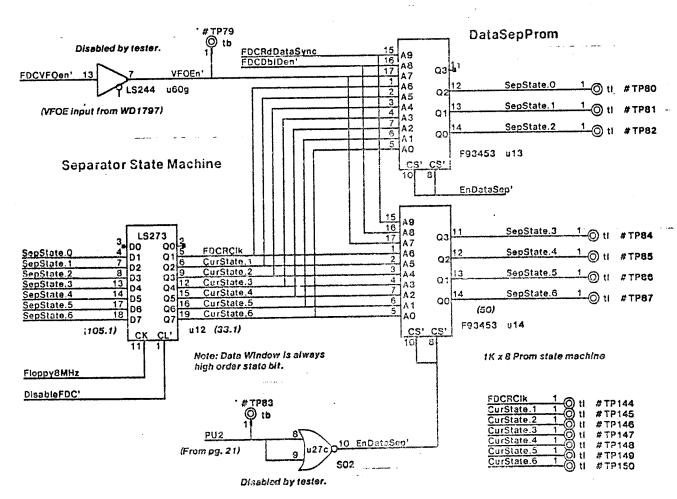
	27************************************							
1		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P1	11052	SHEE	द्धाः ।
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('''			1 A 4	SHEET	11	OF	18	
1		SCHEMATIC, IOP						
p-remark			And the last of the last					

Raw Read Data synchronizer and pulse shaper



Double density selection





I/O Processor Floppy Data Separator - - -

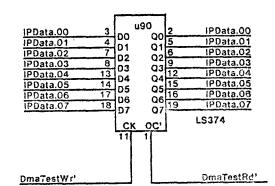
			Particular III.	Carrier variations of particular	-		01122	•
1		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P1	11952	SHEET REV.	1
ı			SIZE					1
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ł		SCHEMATIC, IOP	A STATE OF THE PERSON NAMED IN	-		-		ı

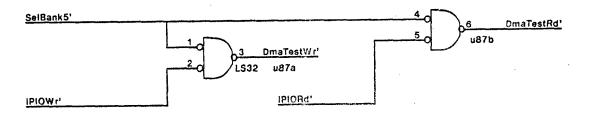
IPData bus Test

This register can be used to test the integrity of the IPData bus, which is the external data bus.

The register can be written and then read back to determine the soundness of the bus.

This register uses SelBank5' to enabled it.

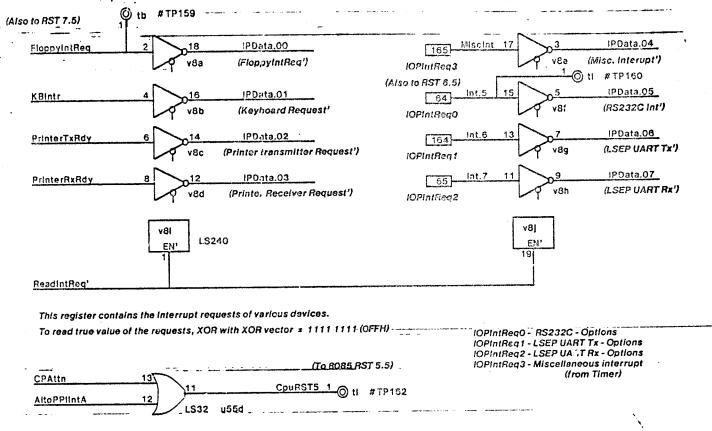




I/O Processor IPData bus Test

				lut. Antonios actual				.
1		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P1	1952	SHEET	1
ı			SIZE		-		REV.	1
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1	1	SCHEMATIC, TOP	1	and the same of the same of the same of			-	ı

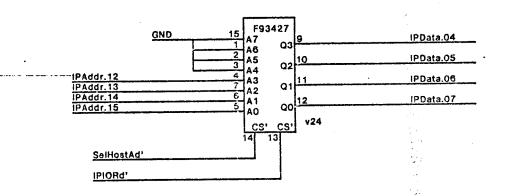
Interrupt Request Register



RST 5.5 interrupt is for MouseHalt or CPAttn

1 ::

Host Address Prom (HostAddrProm)



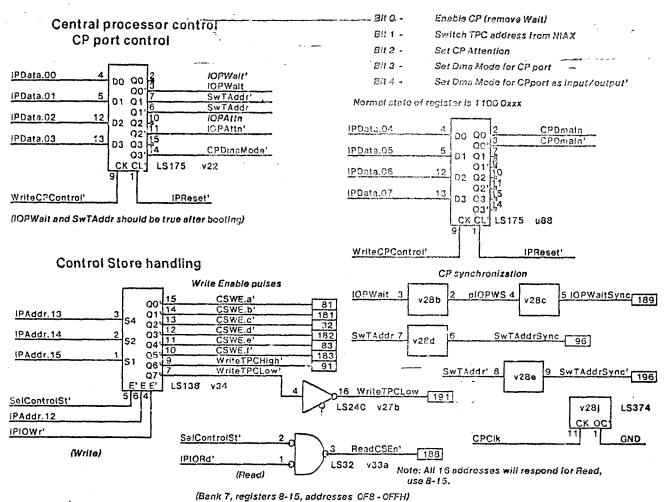
Host address is 48 bits long, stored in addresses 0 - 11 of the Prom.

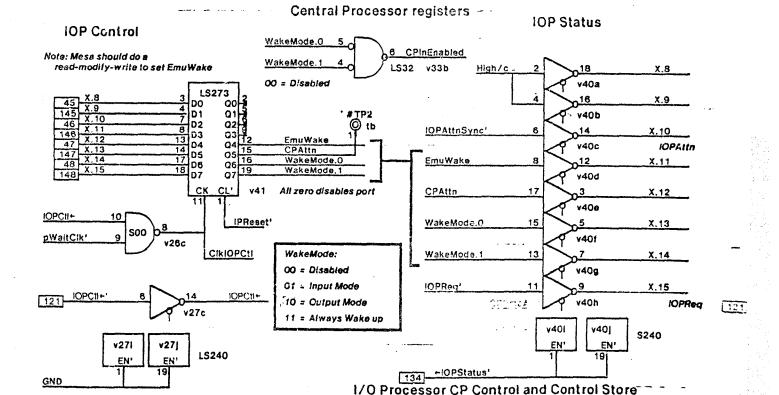
Address 12, 13 contains an 8-bit checksum, 14, 15 contains the complement of the checksum.

Host address Prom has the 161/O Bank 3 addresses.

I/O address	Host address bits 0:3	· · · · · · · · · · · · · · · · · · ·
OBOH	0.0	
1	1	
obbh obch, obdh obeh, obfh	44:47 checksum checksum'	I/O Processor Interrupt Req. reg, Host address

		-				 _	•
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO	1560	11952	SHEET	ı
1	PROPRIETERS NOTE ON SOVER SINCE VALUE TO VELLE TO	SIZE SIZE	 REV.	ı			
XEROX		2			OF	-	ı
1,72	SCHEMATIC, IOP	A4	SHEET	14	Ur	B	ł
1	3CHEMA 110, 101			الأباك بالساعب بالمحاول			4





DWG

SIZE

Α4

SHEET

156P11952

15

OF

SHEET

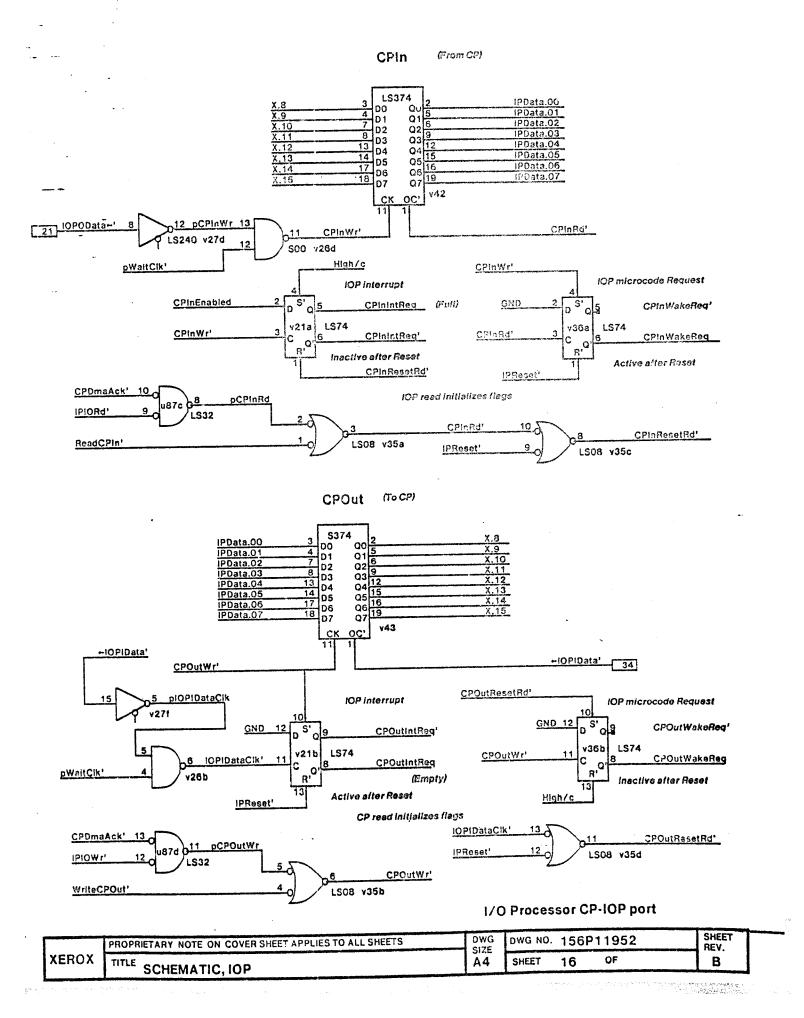
REV.

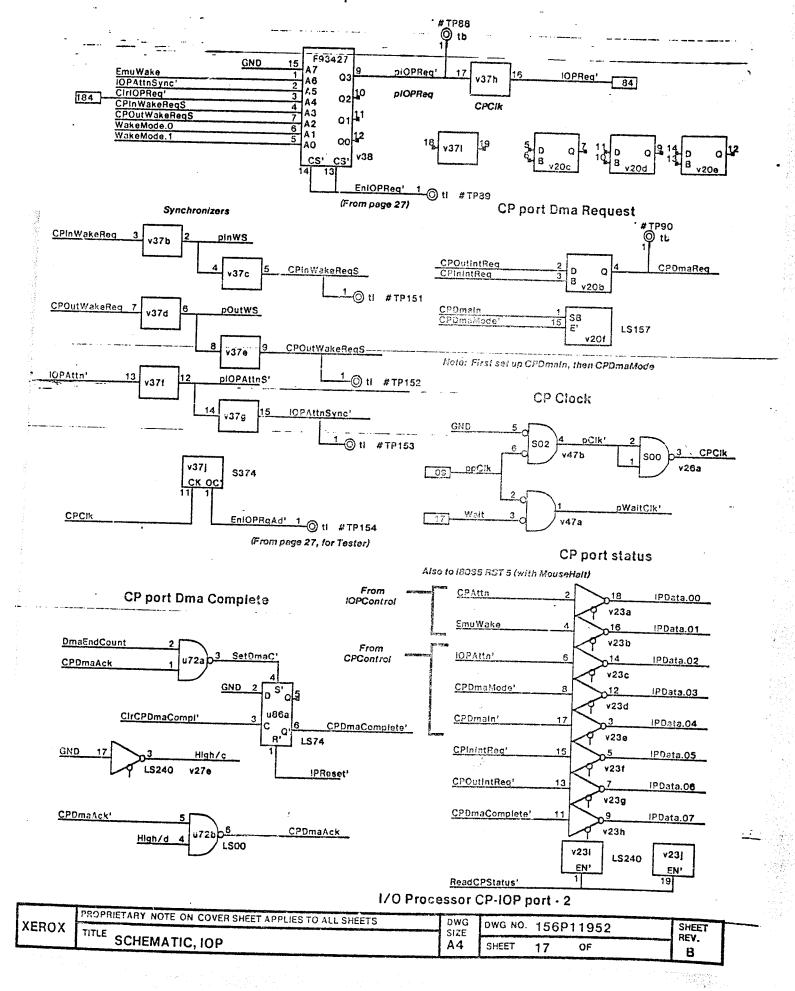
В

PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS

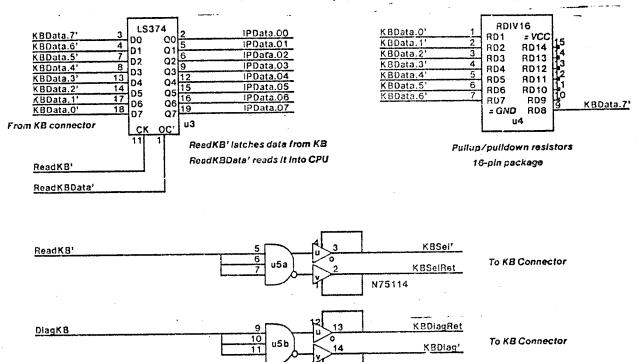
SCHEMATIC, IOP

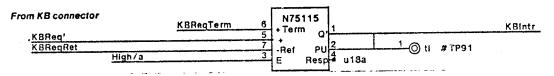
XEROX











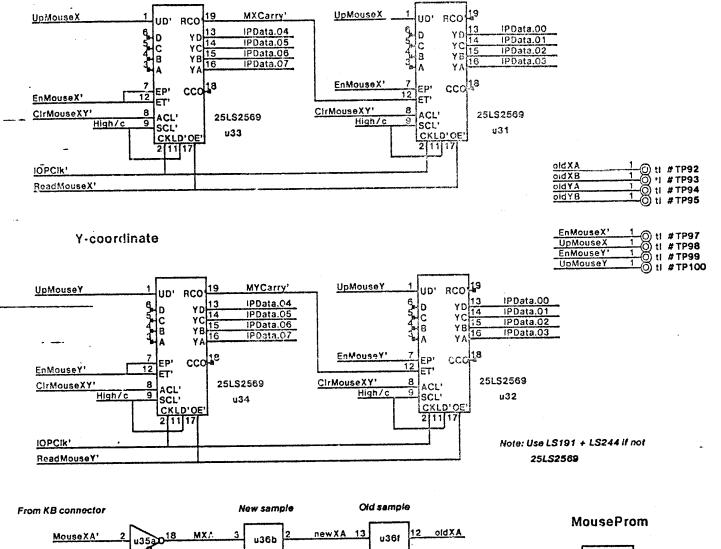
KBReqTerm connected through 1000 pF capacitor to KBReqRet (see page 27)

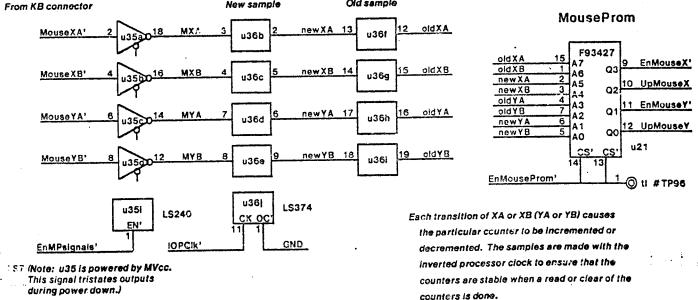
Bell circuit on page 27.

1/0 Processor Keyboard Interface

			South Angeles and Section 1975	-				-
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P	11952		SHEET REV.	ı
XEROX		SIZE	-	-	~~		nev.	ı
VELLOY	TITLE SCHEMATIC, IOP	A4	SHEET	18	Ur		R	ı
L	30111.MA 110, 101	A SHIPPER PROPERTY.	Carried and the second	AND THE PARTY AND ADDRESS OF THE PARTY AND ADD		Table of the second sec	744-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	

X-coordinate

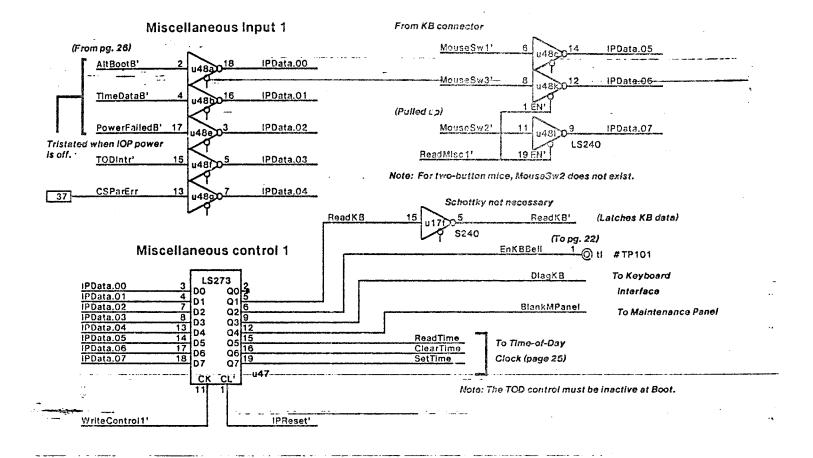




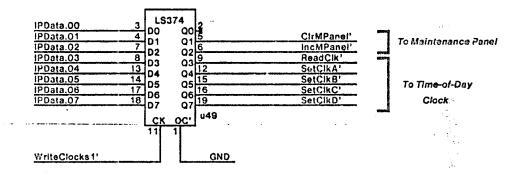
I/O Processor Mouse interface

INGI.

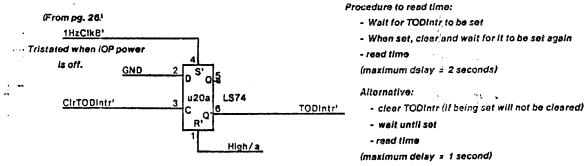
				محدد منسيد سياوه			7	%
1		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	11952	SHEET	ł
1	- 1		SIZE				REV.	1
ı	XEROX	TITLE SCHEMATIC, 10P	A4	SHEET	19	OF	1 8	ı
		SCHEMATIC, TOP	The second second					4



Miscellaneous Clocks 1

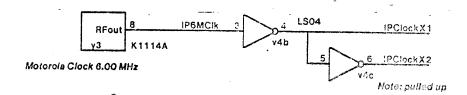


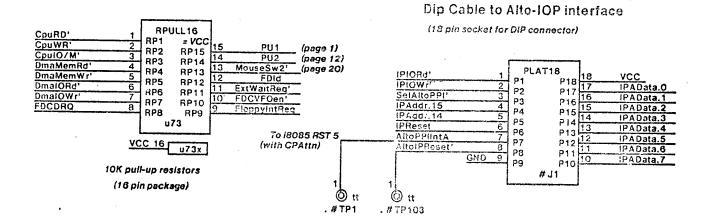
Time-of-Day 1 second interrupt

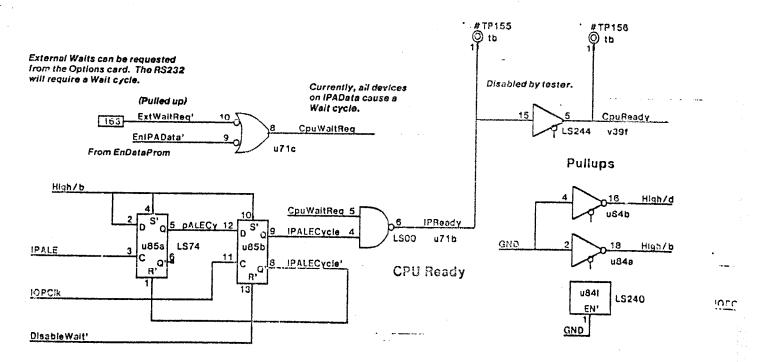


I/O Processor TOD/MP interface, misc. reg.

VEDOV	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	11952	SHEET REV.	
XEROX	TITLE SCHEMATIC, IOP	A4	SHEET	20	OF	В	

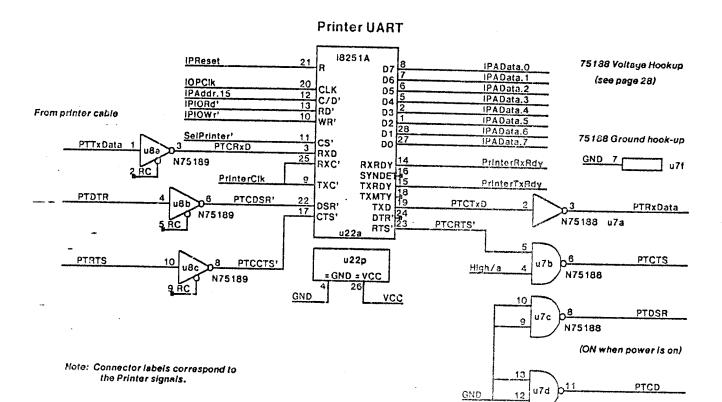






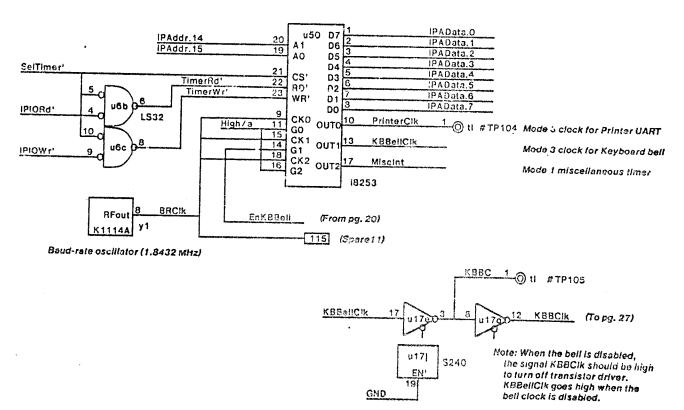
1/O Processor Miscellaneous CPU control

-						
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	4 C C D -	11052	SHEET
XEROX	Titi c	SIZE	0110 110.	1002	11952	REV.
	SCHEMATIC, IOP	A4	SHEET	21	OF	R
			<u> L</u>			



Note: Due to a design shortcoming the RD' and WR' lines of the 8253-5 must be externally qualified.

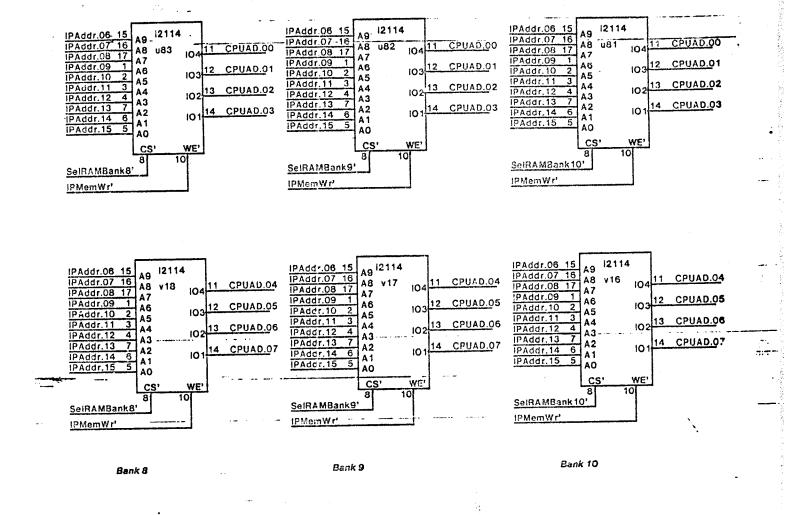
Baud-rate generator

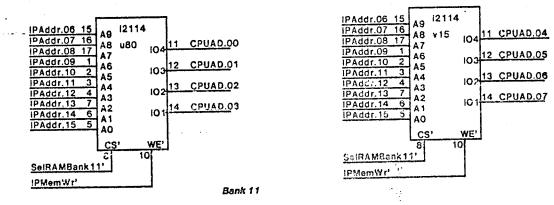


I/O Processor Diablo Priner Interface

To printer cable

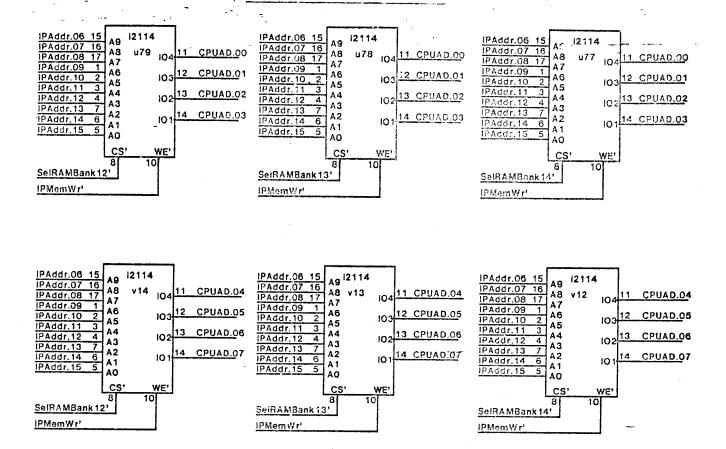
	220005							
1,,,,,,,,	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	1665	11050	To	1100	.
XERO)		SIZE	bird no.	1001	11952		HEET	
L	SCHEMATIC, IOP	A4	SHEET	22	OF	L.	EV.	
				4. L	V1		В	





I/O Processor 4K RAM Memory-Banks 8-11

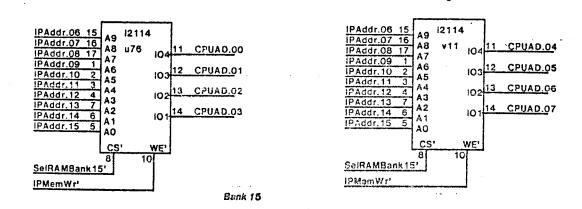
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	11952	SHEET	-
XEROX	TITLE SCHEMATIC, IOP	SIZE A4	SHEET	23	OF	REV. B	



Bank 12

Bank 13

Bank 14



I/O Processor 4K RAM Memory-Banks 12-15

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P1	1952	SHEET REV.	
NE NO X	TITLE SCHEMATIC, IOP	A4	SHEET	24	OF	8	

Note: All the logic on this page is powered from the Maintenance panel +5V supply, MVcc (see page 26) Seconds Counter #TP106 u53a (h) u53b Time.28 QD Time.24 QD SetClkA Time.29 SecondsClkA 0C 10 0B 11 QC Time.25 D Time.30 QB Time.26 8 u38b Time.31 QΑ Time.27 QA LS393 1HzClk1 CirSeconds From MP cable " #TP107 (D) (D u39a u39b Tlme.20 Time. 16 QD QD Time.21 Time.22 SetClkB 3condsClkB Time.17 QC D QC Time, 24 Time. 18 QB u38¢ QB Time.23 Time. 19 QA QA LS393 1HzClk' 1 usec (typ) CirSeconds Clock counter Load SR * # TP108 u25a u25b Time, 12 Time, 13 Time.08 00/8 QD SetClkC Time.16 SecondsClkC Time.09 QÇ Q QC 10 Time, 14 10 Time. 10 OB u38d Time, 15 Time.11 07 QA LS393 CL CIrTime CirSeconds SetT LSOS #TP109 (O) tb u10a u10b Time.04 Time.0d QD QD SetClkD Time.08 Time.05 SecondsClkD Time.01 Time.02 QC D QC Time.06 QB u38e QB Time.07 QA Tima.03 QA LS393 SetTime' SB u38f GND 15 E' LS157 CirSeconds SetTime = 0 => 32 bit counter SetTime = 1 => Four 8-bit counters ReadClk ClkReadSR' SetClkA' <u>18</u> כנ SetClkA SetClkB' SetCIkB . ClearTime ClearTime CirTime u35g SetClkC' SetClkC u23 ReadTime ReadTime ReadT u35f SetClkD' SetClkD SetTime SetT น35h i Siter u23i u23| LS240 SetTlme^{*} u35] SEIT'

The 8 Inputs SetClkA', SetClkB', SetClkC', SetClkD', ReadClk', ClearTime', ReadTime', SetTime' are pulled up for power-down condition.

1.'O Processor Time-of-Day Clock - 1

PowerNormalF'

19

GND

13:6

ĺ	XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P1	1952	SHEET	
į	ALNUX	TITLE SCHEMATIC, 10P	SIZE A4	SHEET	25	OF	REV.	
)	<i>]</i>				i

EN'

19

LS240

10

LS08

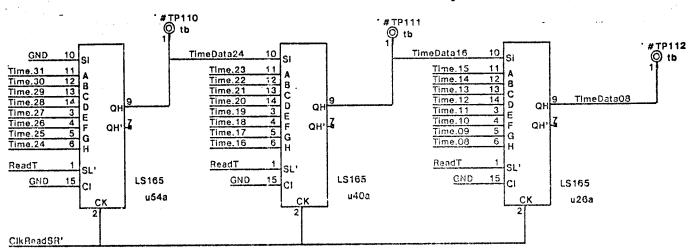
ReadTime = 0 =>

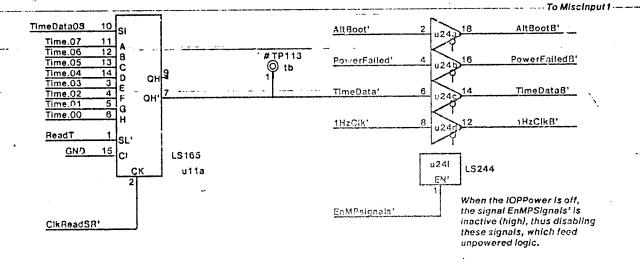
Time Read Shift Register.....

Shift register parallel loads Seconds Counter

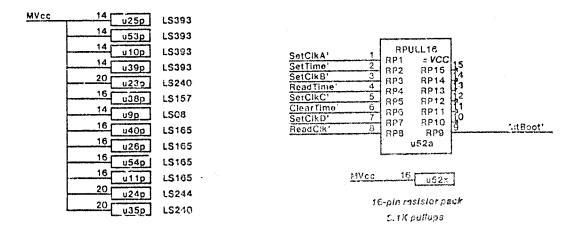
RoadTime = 1 =>

Shift register in serial shift mode, ClkReadSR' clock



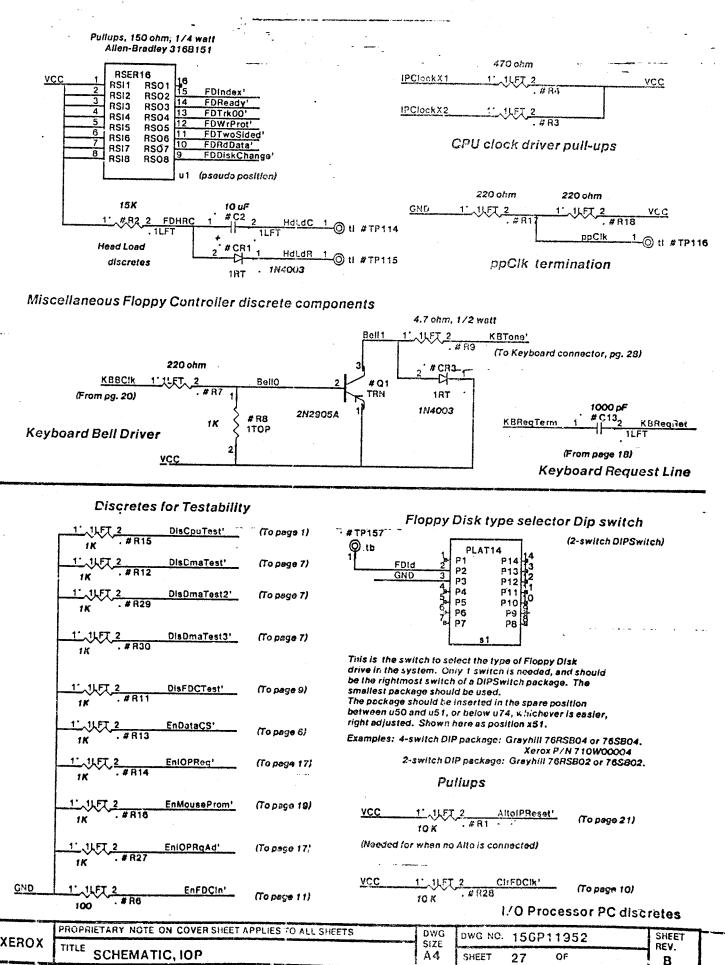


Power for Time-of-day clock from Maintenance Panel

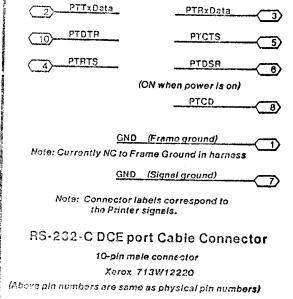


I/O Processor Time-of-Day Clock - 2

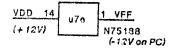
			5-11-4-18-10-10-10-10-10-10-10-10-10-10-10-10-10-	THE RESIDENCE OF THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COL	14 · 14 / 15 / 16 / 16 / 16 / 16 / 16 / 16 / 16	remainid Call er Wire of Paris Andrews		
3		PROPHIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	11952	SHEET	
١	VEDAY !	The state of the control of the state of the		-	**************************************	· · · · · · · · · · · · · · · · · · ·	REV.	ı
1	XERUX	TITLE COURTS TO LOS	A4	SHEET	26	OF	А	ľ
1		SCHEMATIC, IOP	IS TO ADDRESS HOW HORE TO THE	Octo Marian Statement and Publisher	4. V	AN THE RESIDENCE AND ADDRESS OF THE PARTY OF		



(Printer)



75188 Voltage hookup



Floppy Disk Cable Connector

FDWrCurrent'

CND

J1[2/1]

50-pin male connector
Xerox 713W14320

(Subtract 200 from above pin numbers to get physical pin number)

227 229

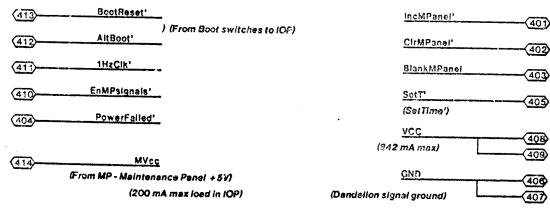
231

Maintenance Panel Cable Connector

14-pin male connector Xerox 713W13320

(Subtract 400 from pin numbers to get physical

pin number)



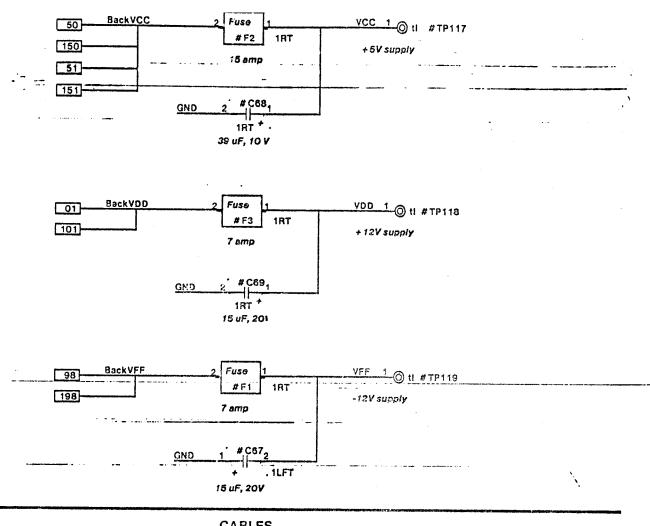
1/O Processor I/O Connectors - 2

XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS TITLE	DWG SIZE	DWG NO.	156P1	1952	SHEET	7
	SCHEMATIC, IOP	A4	SHEET	28	OF	REV. B	

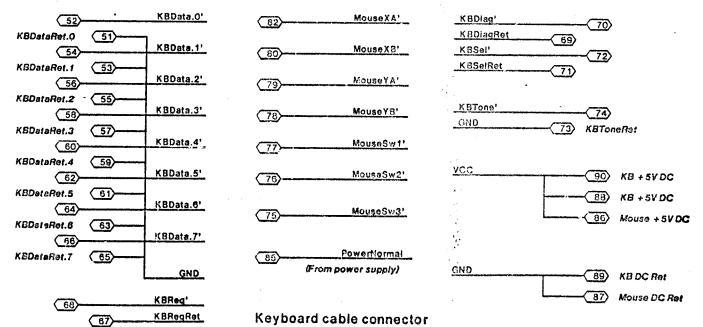
(213)

201

(202)



CABLES



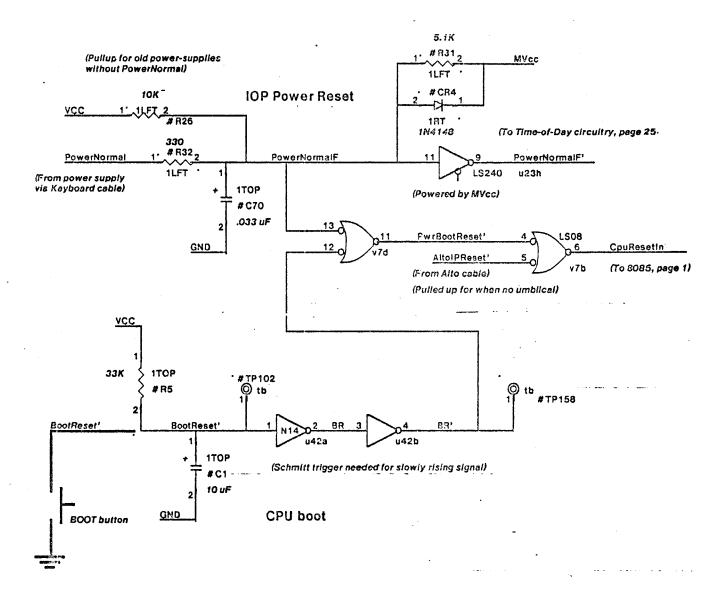
40-pin male connector

Xerox 713W12720

(Subtract 50 from above pin numbers to gat physical pin number)

Power Supply and Fuses Keyboard cable connector

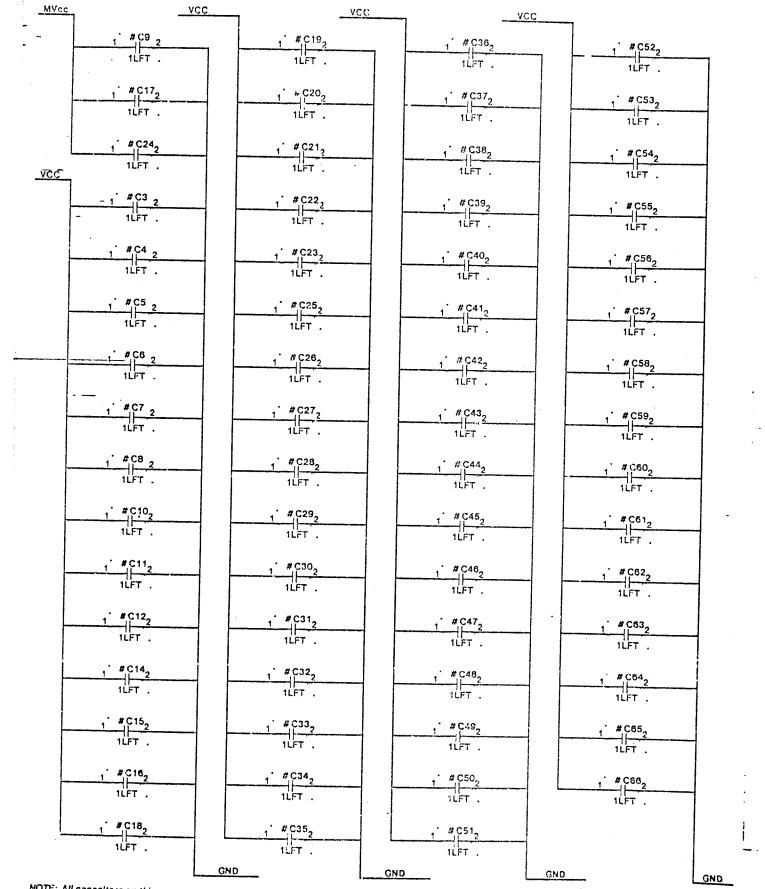
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P1	1952	SHEET REV.
	SCHEMATIC, IOP	Α4	SHEET	29	OF.	В



The PowerNormal signal is produced in new power supplies. This signal monitors the +5 V power. When +5 V initially rises after power-up, PowerNormal is low for 50 msec after the +5 V power has stabilized. On power down, PowerNormal is rapidly made low to cause an IOPReset before the power disappears.

1/O Processor: IOP Boot and Reset circuitry

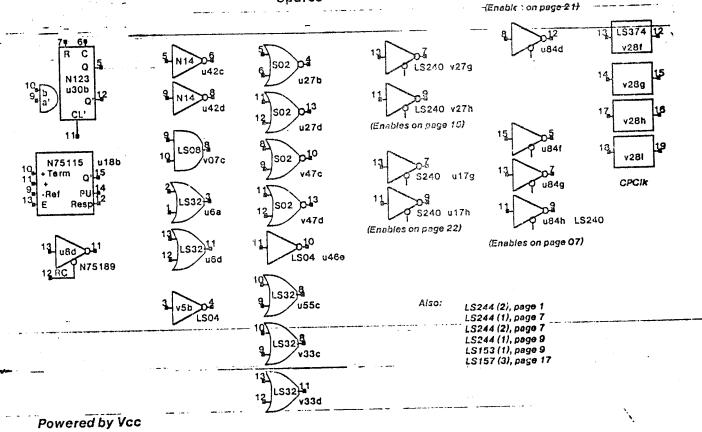
: .	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	11952	SHEET REV.
XEROX	TITLE SCHEMATIC, IOP	A4	SHEET	30	OF	B

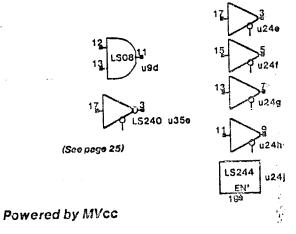


NOTE: All capacitors on this page are ceramic capacitors, 50V, 0.10 uf, part number 702W05218

DISCRETE CAPACITORS

	·	•	310 CALL	· Q//\	701101	13		
XEROX	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG -	DWG NO.	156P	11952		SHEET REV.	
	SCHEMATIC, IOP	Α4	SHEET	31	ОF		В	





I/O Processor Spares

				-			- 7	SHEET	ł
ı		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P	11952	į	REV.	ĺ
۱	1	PROPRIETART NOTE ON COVER STILL ATTELES	SIZE						ĺ
١	XEROX	TITLE CONTRACTION OF	A4	SHEET	32	OF		B	l
		SCHEMATIC, IOP	CONTRACTOR CONTRACTOR						•

Comments:

- Designator notation notes: u1-99 = U1-99, v0-99 = U100-199, w0-99 = U200-299
 The last item on lines below, preceded by a semicolon (;), is the schematic page number on which the test point, connector or signal information originates.
- 3) Line with no page number was a continuation of the previous line.

#TP048	.1i	DisDmaTest'	;07	#TP145	.1i	CurState.1	;12
#TP1	.1i	AltoPPIIntA	;21	#TP146	.1i	CurState.2	;12
#TP10	.1i	CPUAD.07	:02	#TP147	.1i	CurState.3	;12
#TP100	.1i	UpMouseY	;19	#TP148	.îi	CurState.4	;12
#TP101	.1i	EnKBBell	;20	#TP149	.îi	CurState.5	
#TP102	. 1 i	BootReset'	;30	#TP15			;12
#TP103	.1i	AltoIPReset'			.11	CpuRD'	; 01
#TP104	.1i		;21	#TP150	.1 i	CurState.6	;12
		PrinterC1k	;22	#TP151	. 1 i	CPInWakeReqS	;17
#TP105	.1i	KBBC	;22	#TP152	. 1 i	CPOutWakeReqS	; 17
#TP106	.1i	Time.24	; 25	#TP153	.1 i	IOPAttnSync'	; 17
#TP107	.1i	Time.16	; 25	#TP154	.1i	En IOPRgAd'	;17
#TP108	. 1 i	Time.08	;25	#TP155	.1 i	IPReady	:21
#TP109	. 1 i	Time.00	; 25	#TP156	.1i	CpuReady	;21
//TP110	. 1 i	TimeData24	;26	#TP157	. î i	FDId	;27
#TP111	.1i	TimeData16	:26	#TP158	. î i	BR'	
#TP112	. 1 i	TimeData08	;26	#TP159			;30
#TP113	.1i	TimeData'			ļ	FloppyIntReq	;14
#TP114	.1;		;26	#TP16	.1 i	CpuWR'	;01
#TP114		HdLdC	;27	#TP160	, 1 i	Int.5	; 14
	.1i	HdLdR	;27	#TP162	.1i	CpuRST5	;14
#TP116	. 1 i	ppC1k	;27	#TP163	.1i	DisDmaTest2'	;07
#TP117	,1 i	VCC	;29	#TP164	.1i	DisDmaTest3'	;07
#TP118	. 1 i	dav	;29	#TP17	. 1 i	CPUAddr.00	;01
#TP119	.1i	VFF	;29	#IP18	.1i	CPUAddr.01	;01
#TP12	.1i	IPReset	:01	#TP19	.1i	CPUAddr.02	;01
#TP120	. l i	SelHostAd'	:05	#TP2	. 1 i	CPAttn	;15
#TP121	. 1 i	SelPROMBank0'	;05	#TP20	.1i	CPUAddr.03	;01
#TP122	.1i	SelPROMBanki'	;05	#TP21	. 1 i	CPUAddr.04	;01
#TP123	. 1 i	SelPRGMBank2'	;05	 #TP22	.1i	CPUAddr.05	;01
#TP124	. 1 i	SelPROMBank3'	;05	#TP23	. 1 i	CPUAddr.06	;01
#TP125	. 1 i	SelRAMBankO'	;05	#TP24	.1i	CPUAddr.07	;01
#TP126	.1i	SelRAMBank1'	;05	#TP26	.1i	CpuHold	;01
#TP127	. 1 i	Se1RAMBank2'	:05	#TP27	.1i	DisCpuTest'	;01
#TP128	.1i	SelRAMBank3'	:05	#TP28	.îi	PU1	;01
#TP129	.1i	SelRAMBank4'	;05	#TP29	.1i	SelAltoPPI'	;05
#TP13	. 1 i	CpuHo1dAck	:01	#TP3	.1i	CPUAD.00	
#TP130	. 1 i	SelRAMBank5'	;05	#TP30	. 1 i	SelPrinter'	;02
#TP131	. 1 i	SelRAMBank6'	:05	#TP31	.1i		:05
#TP132	.1i	SelRAMBank7'	;05			SelTimer'	:05
#TP133	.1i	SelRAMBank8'		#TP32	.1i	ReadKBData'	; 05
#TP134		Seirambanko Seirambanko	;05	#TP33	. 1 i	ClrMouseXY'	;05
#TP135	.1i	SelRAMBank9'	; 05	#TP34	, 1 i	IPAData.0	;06
	.11	SelRAMBank10'	:05	#TP35	.1i	IPAData.1	;06
#TP136	. 1 i	SelRAMBank11'	;05	#TP36	.1i	IPAData.2	;06
#TP137	.1 i	SelRAMBank12'	; 05	#TP37	. 1 i	IPAData.3	;06
#TP138	. 1 i	SelRAMBank13'	;05	#TP38	. 1 i	IPAData.4	;06
#TP139	.1 i	SelRAMBank14'	:05	#TP39	. 1 i	IPAData.5	;06
#TP14	.1 i	CpuIO/M'	;01	#TP4	.1i	CPUAD.01	:02
#TP140	. 1 i	SelRAMBank15'	;05	#TP40	.li	IPAData.6	;06
#TP141	.1i	DmaWaitReq .	:06	#TP41	.1i	IPAData.7	;06
#TP142	.1i	ClrFDClk'	;10	#TP42	.1i	EnIPData	;06
#TF143	. 1 i	FDCDb1Den'	;12	#TP43	. 1 i	En I PAData	:06
#TP144	.1i	FDCRC1k	;12	#TP44	. 1 i	EnIPAData	;06
			,	11 77		LHALADUG	, 00

VEDOV	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO. 156P11952				SHEET	
XEROX	TITLE		 	~~			REV.	ı
L	SCHEMATIC, IOP	A4	SHEET	33	OF	ı	В	1
<u> </u>	SCHEMATIC, IOP	A4	SHEET	33	OF		В	